

# Specifications — RGB 500 Series Interfaces

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## Video

Gain ..... Unity (0.70V p-p), (0.725V p-p) 50% peaking, (0.75V p-p) 100% peaking  
Bandwidth ..... 300 MHz (-3dB)

## Video input

Number/signal type ..... 1 analog RGBHV, RGBS, RGSB, RsGsBs  
Connectors  
    RGB 500, RGB 500 Dual, RGB 508  
        1 9-pin D male, MBC/LBC cable or buffer  
    RGB 560, RGB 560 Dual, RGB 568, RGB 560 AKM  
        1 15-pin HD female  
Minimum/maximum levels ..... Analog ..... 0.3V to 1.5V p-p with no offset  
Impedance ..... 75 ohms or High Z, switchable (set to 75 ohms if no local monitor is connected)  
Horizontal frequency ..... Autoscan 15 kHz to 130 kHz  
Vertical frequency ..... Autoscan 30 Hz to 120 Hz  
Return loss ..... -30dB @ 5 MHz  
Maximum DC offset ..... 4.0V

## Video output

Number/signal type ..... 1 analog RGBHV, RGBS, RGSB  
Connectors  
    All models ..... 5 BNC female  
    RGB 560, RGB 560 Dual, RGB 568, RGB 560 AKM  
        1 15-pin HD female for buffered local monitor output  
Minimum/maximum levels ..... 0.70V to 0.75V p-p with no offset and 0.7V p-p input  
Impedance ..... 75 ohms  
Return loss ..... -30dB @ 5 MHz

## Sync

Input type ..... RGBHV TTL ( $\pm$ ), RGBS TTL (-), RGSB 0.3V (-), RsGsBs 1.3V (-)  
Output type ..... RGBHV ( $\pm$ ), RGBS(-), RGSB (-)  
Input level ..... 2V to 5.5V p-p with  $\pm 0.3$ VDC offset (max.)  
Output level ..... 4V to 5V p-p  
Input impedance ..... 10 kohms  
Output impedance ..... 75 ohms  
Max. input voltage ..... 5.7V p-p  
Max. propagation delay ..... 48 nS  
Max. rise/fall time ..... 3.5 nS  
Polarity  
    RGB 560 AKM ..... RGBHV ..... Polarity follows input when RGBHV is input and the sync polarity switch is set to Off. Sync polarity is negative if the sync polarity switch is set to On.  
        RGBS, RGSB ..... Negative  
    All other models ..... RGBHV ..... Polarity follows input when RGBHV is input and the bottom panel sync polarity jumper is set to follow (pin 1 jumpered to pin 2). Sync polarity is negative if the sync polarity jumper is set to negative (pin 2 jumpered to pin 3).  
        RGBS, RGSB ..... Negative

## Audio

Gain ..... Unbalanced 0dB, balanced +6dB  
Frequency response ..... 20 Hz to 20 kHz,  $\pm 0.05$ dB  
THD + Noise ..... 0.03% @1 kHz, 0.3% @ 20 kHz at rated maximum output drive  
S/N ..... >90dB at rated maximum output (14dBm), balanced  
Stereo channel separation ..... >95dB @ 1 kHz to 20 kHz

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## Audio input

Number/signal type .....	1 PC level stereo, unbalanced
Connectors .....	1 3.5 mm stereo jack, 2 channel; tip (L), ring (R), sleeve (ground)
Impedance .....	10 kohms, DC coupled
Maximum level .....	+8.5dBu,(unbalanced) at stated %THD+N

## Audio output

Number/signal type .....	1 stereo (2 channel), balanced/unbalanced
Connectors .....	1 3.5 mm captive screw connector, 5 pole
Impedance .....	50 ohms unbalanced, 100 ohms balanced
Gain error .....	±0.1dB channel to channel
Maximum level (600 ohm) .....	>+14dBm, balanced at stated %THD+N

## General

Power .....	100VAC to 240VAC, 50/60 Hz, 5 watts, external, auto-switchable; to 12 to 24VAC or VDC, 0.20 A power supply. Product requires 0.20 A (minimum). (Order the power supply separately, part #70-055-01.)
Temperature/humidity .....	Storage -40° to +158°F (-40° to +70°C) / 10% to 90%, non-condensing Operating +32° to +122°F (0° to +50°C) / 10% to 90%, non-condensing
Rack mount .....	No
Furniture mount .....	Yes, or wall mount, with included hardware
Enclosure type .....	Metal
Enclosure dimensions — RGB 500, RGB 560	
Faceplate .....	4.5" H x 4.6" W x 0.1" D (2-gang) (11.4 cm H x 11.7 cm W x 0.3 cm D)
Interface enclosure .....	2.5" H x 3.7" W x 1.75" D (6.4 cm H x 9.4 cm W x 4.4 cm D) (Depth excludes connectors and knobs.)
Enclosure dimensions — RGB 500 Dual, RGB 508, RGB 560 Dual, RGB 568	
Faceplate .....	4.5" H x 8.3" W x 0.1" D (4-gang) (11.4 cm H x 21.1 cm W x 0.3 cm D)
Interface enclosure .....	2.5" H x 3.7" W x 1.75" D (6.4 cm H x 9.4 cm W x 4.4 cm D) (Depth excludes connectors and knobs.)
Enclosure dimensions — RGB 560 AKM	
Interface .....	3.0" H x 8.2" W x 1.5" D (7.62 cm H x 20.8 cm W x 3.8 cm D) (Depth excludes connectors and knobs.)
Product weight	
RGB 500, RGB 508, RGB 560	0.7 lbs (0.3 kg)
RGB 568, RGB 560 AKM	0.9 lbs (0.4 kg)
Shipping weight .....	RGB 500, RGB 560 .... 2 lbs (0.9 kg) All other models ..... 3 lbs (1.4 kg)
Vibration .....	ISTA/NSTA 1A in carton (International Safe Transit Association)
Listings .....	UL
Compliances .....	RGB 560 AKM ..... CE All other models ..... CE, FCC Class A
MTBF .....	30,000 hours
Warranty .....	3 years parts and labor

**NOTE** Specifications are subject to change without notice.

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